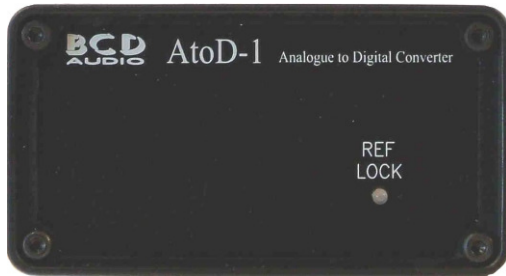


The BCD ATOD-1 is a top quality Analogue to Digital converter, packaged in our black box.



Specification– Analogue

Balanced audio inputs, ground pin 1, left on pins +2,-3 and right on pins +4,-5.
Nominal calibration 0dBu input for -18dBFS.
Internal presets allow for other calibrations.

Distortion better than 0.005%.
Output noise, as measured by DtoA conversion, better than -86dB, 20-20KHz, with maximum output +18dBu.
Input impedance 30K.

Input balance better than 60dB at 1KHz.
Left-right crosstalk better than -100dB @ 1KHz.
Left-right crosstalk better than -85dB @ 10KHz.

Specification – Digital

Transformer balanced AES3 output.
Output impedance 110R +/-10%.
Output level 4V p-p, loaded.
Output jitter better than 8nS.

Power requirements

DC input, with +ve on centre pin.
Minimum input voltage 8V, maximum 30V.
Recommended input voltage 12 to 24V DC.
Power consumption at 12V input 120mA.

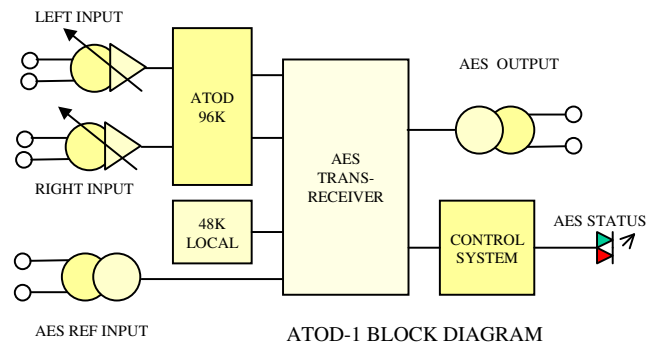
Features

Dual balanced audio inputs on 5pin XLR.

AES-3 transformer balanced output on XLR.

AES-3 transformer balanced reference input XLR.

Wide range DC power inlet on 2.5mm socket.



Description

The ATOD-1 converts balanced audio at broadcast levels to digital audio.

The unit automatically references to an external AES3 signal if present, or defaults to an internally generated 48KHz if the reference is missing.

The external reference may be in the range 32KHz up to 110KHz, enabling 48KHz and 96KHz operation as well as Consumer frequencies.

The single status LED indicates Red during the initial calibration phase, orange for internal clock and green for external reference clock.

The internal control system correctly inserts Channel status information, and maintains the sample frequency information to the latest standards.